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FG. 1

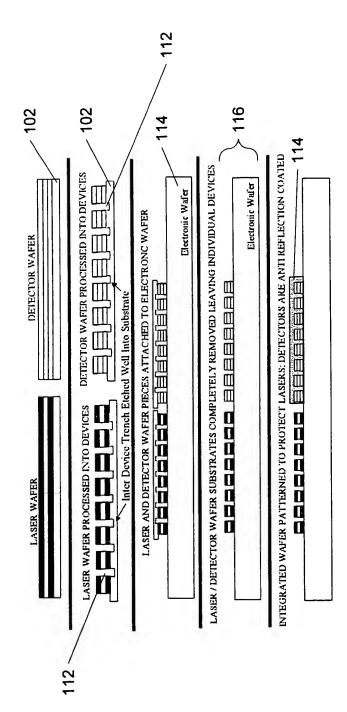


FIG. 2

FIG. 3

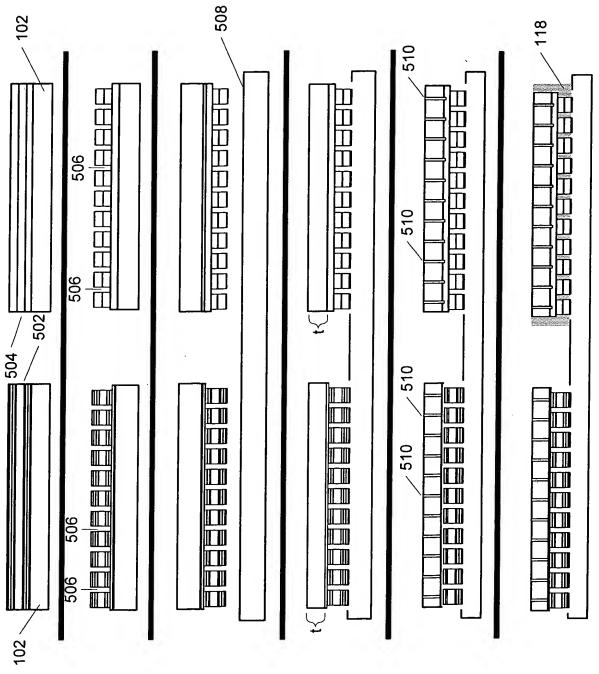
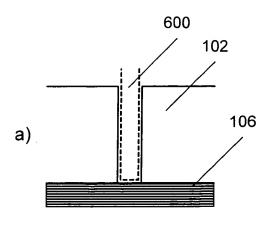


FIG. 5



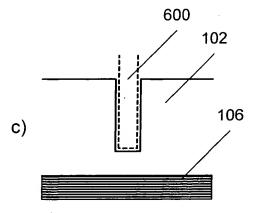
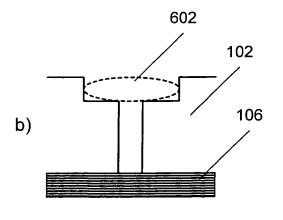
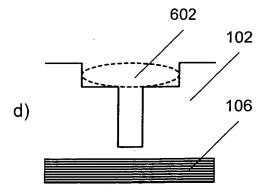


FIG. 6





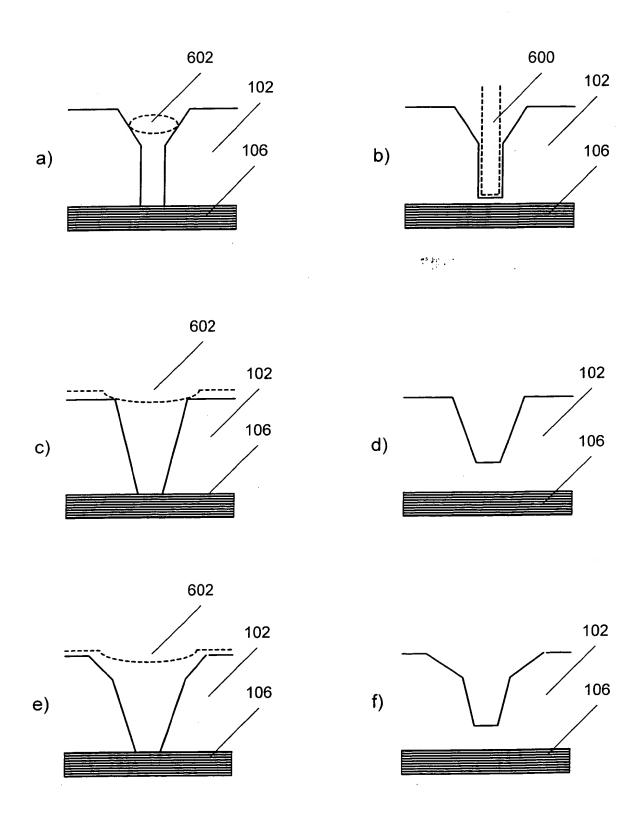


FIG. 7

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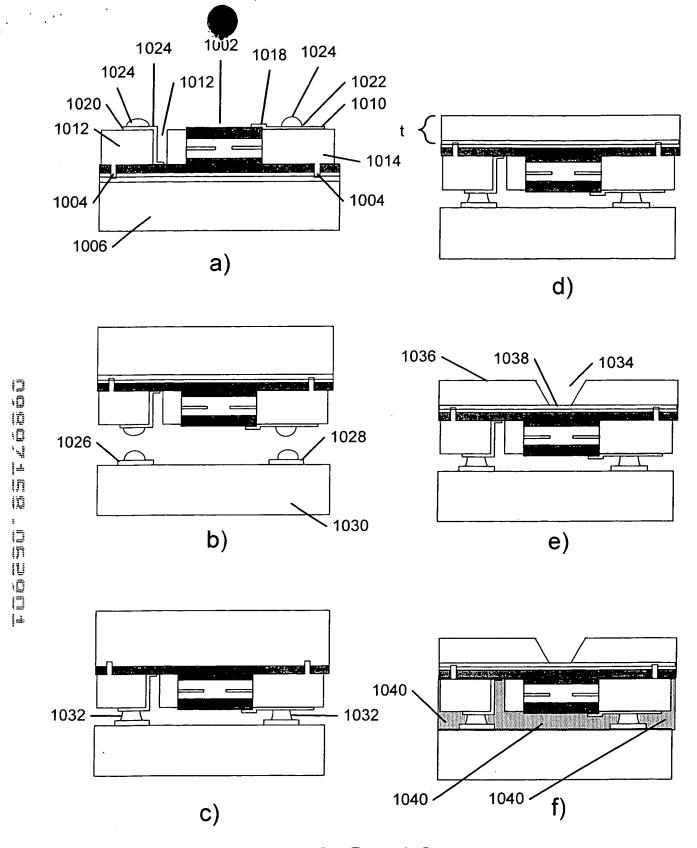


FIG. 10

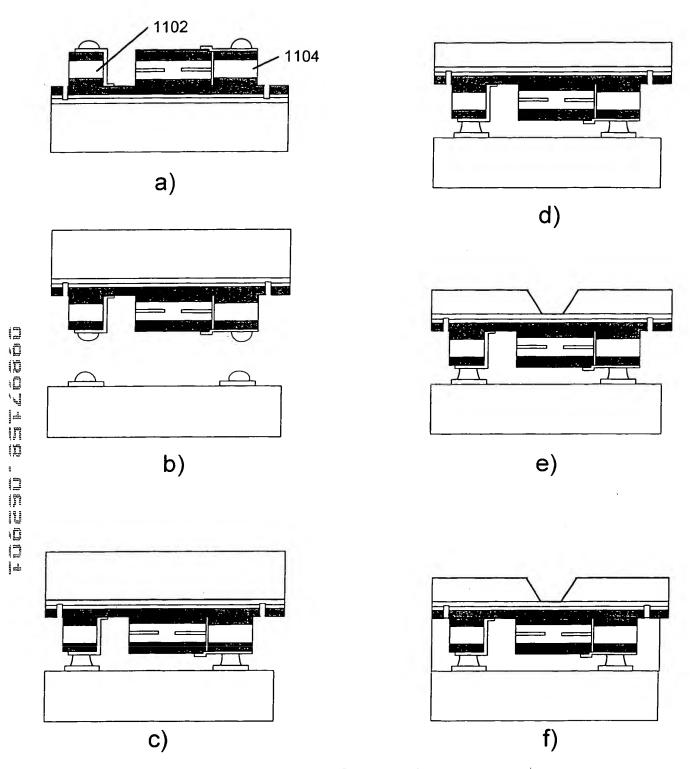


FIG. 11

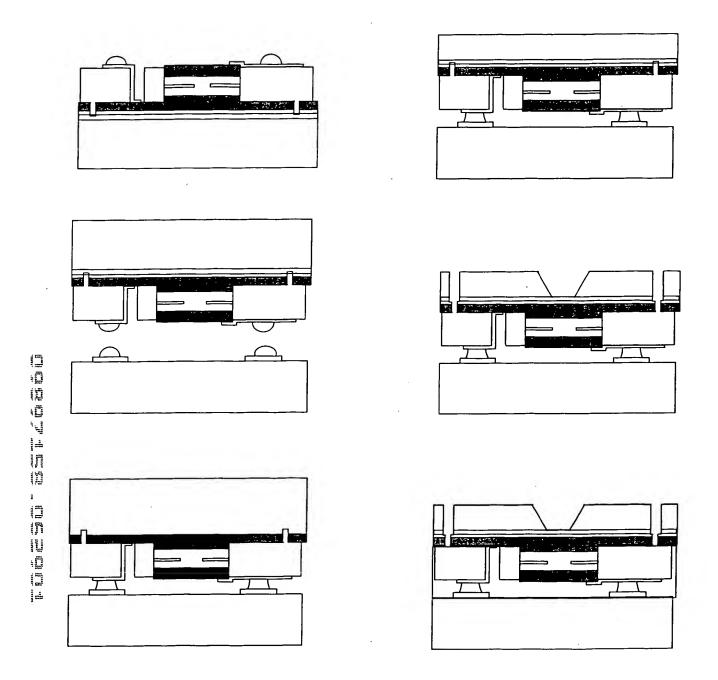


FIG. 12

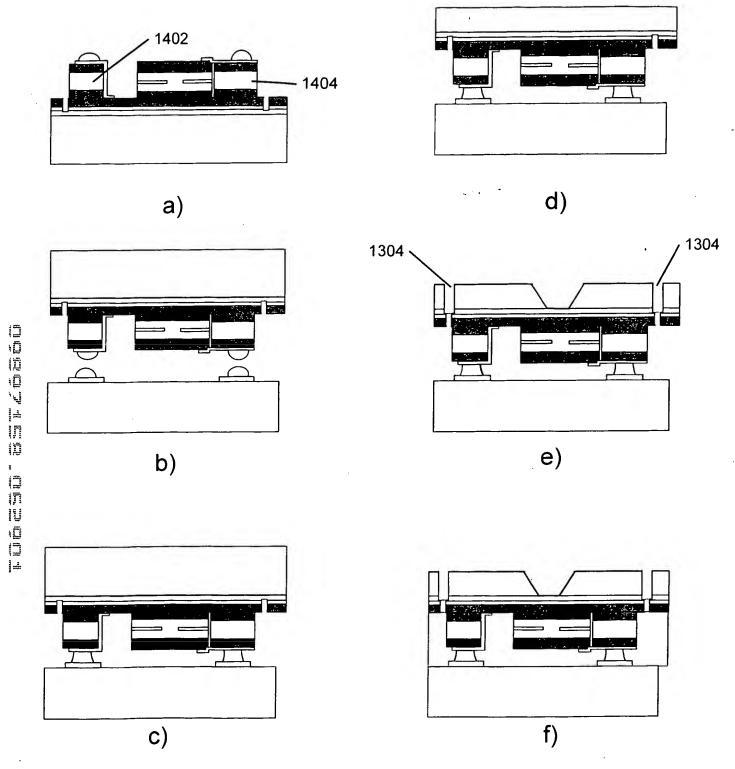


FIG. 14

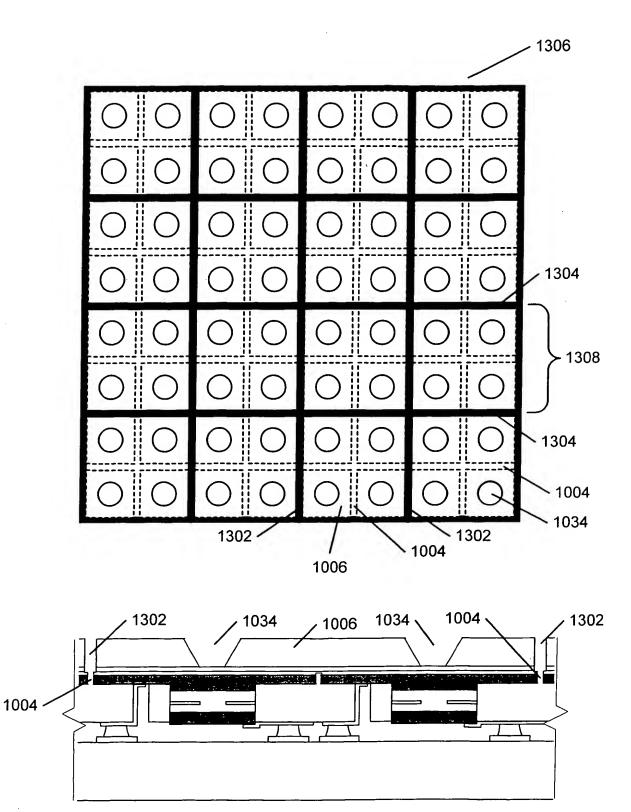
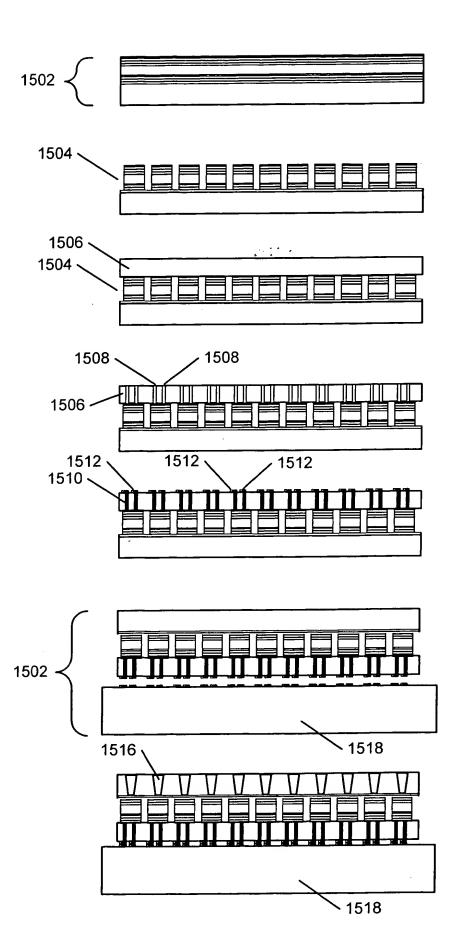


FIG. 13

FIG. 15



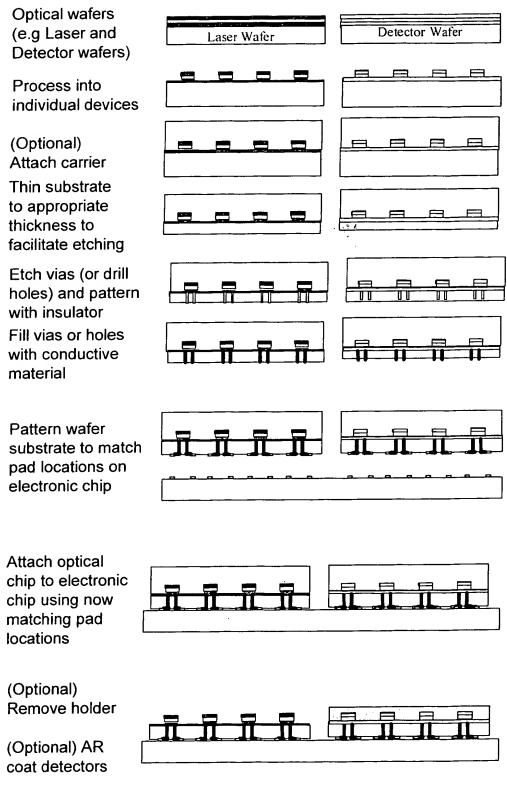
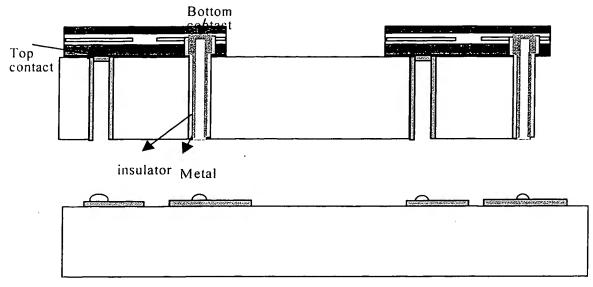
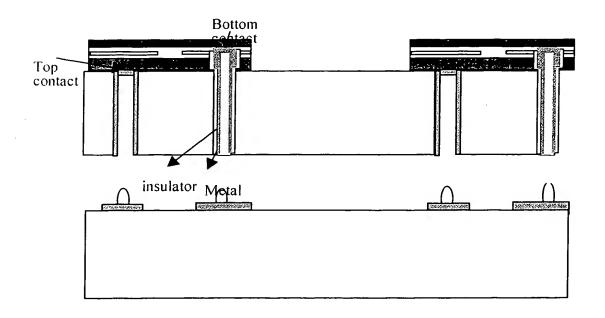


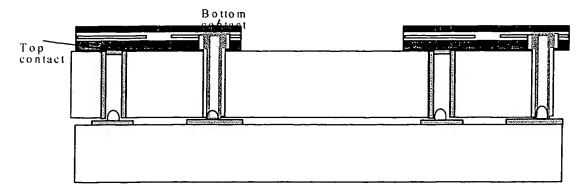
FIG. 16A





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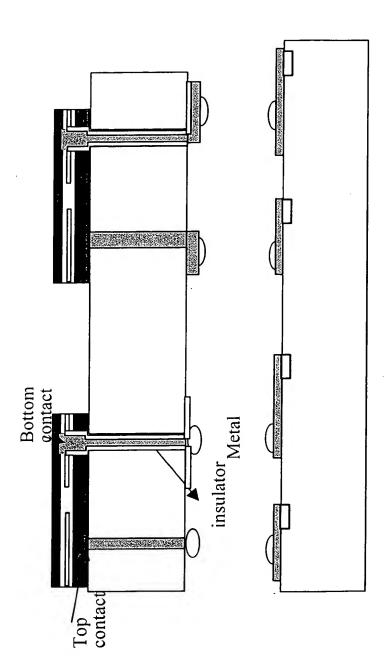


FIG. 16C

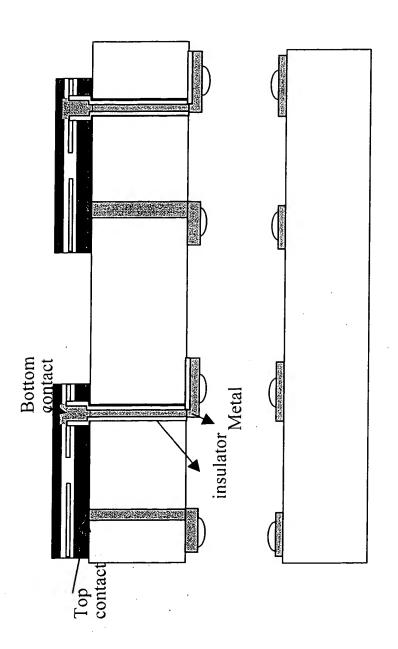
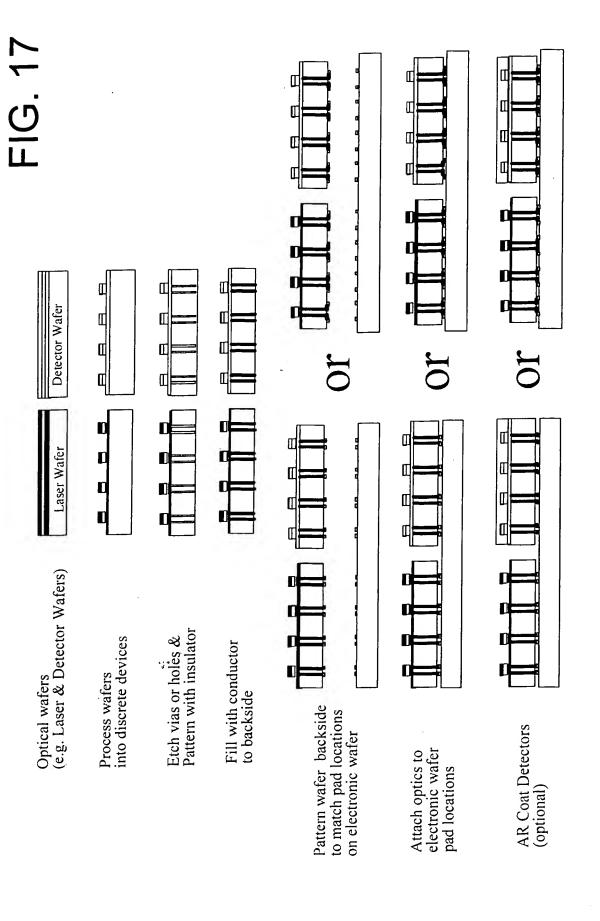


FIG. 16D



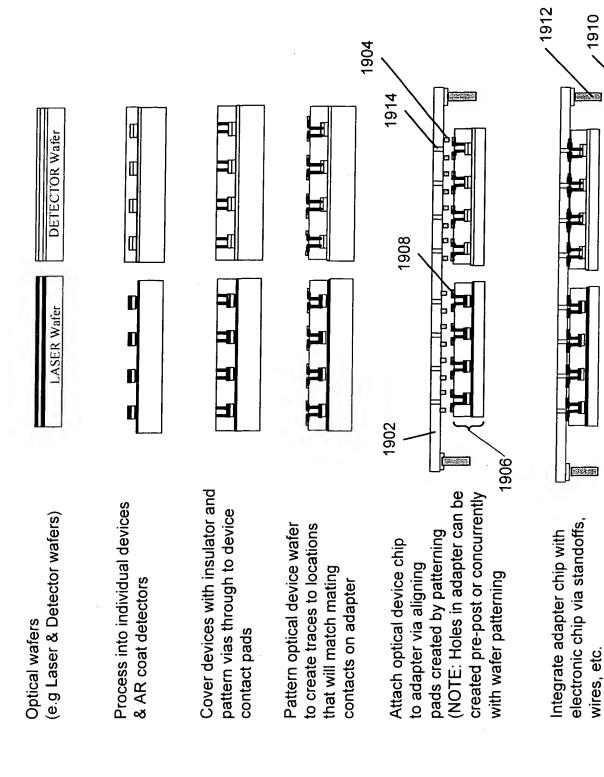


FIG. 19

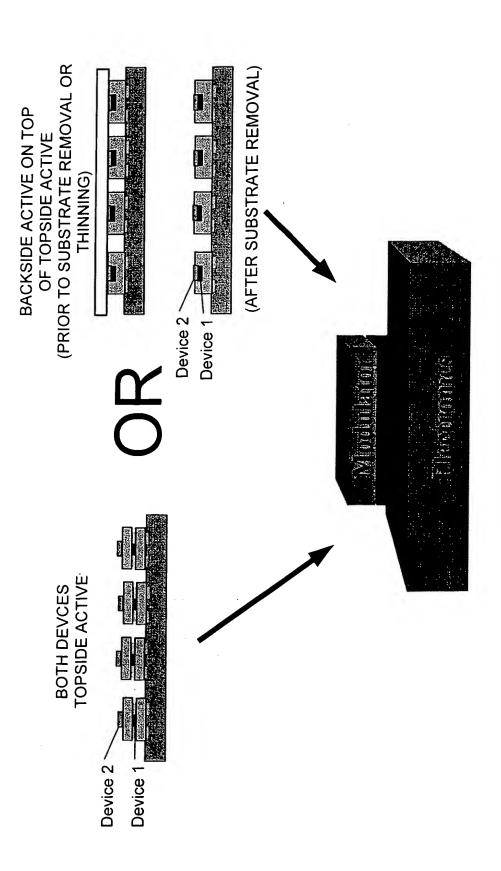


FIG. 20A

 $40~\mathrm{Gb/s} = 20~\mathrm{GHz} = 50\mathrm{ps}$ Wavelength in free space = $3~\mathrm{X}~10^{10}~\mathrm{cm/s}$ * $50^{12}\mathrm{s} = 1.5\mathrm{cm}$ 1/8 wavelength in n=3 = 640 microns

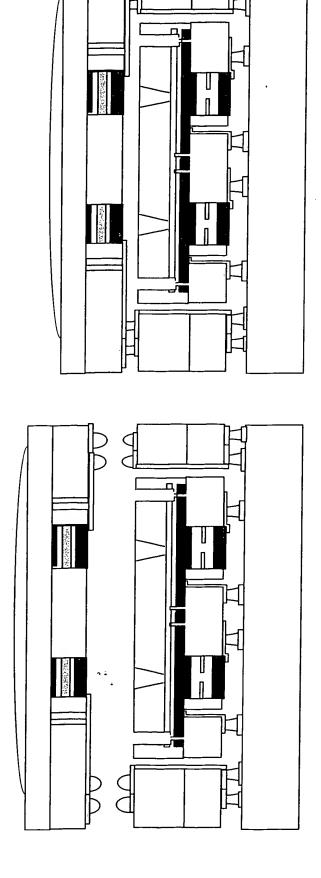


FIG. 20B

FIG. 21

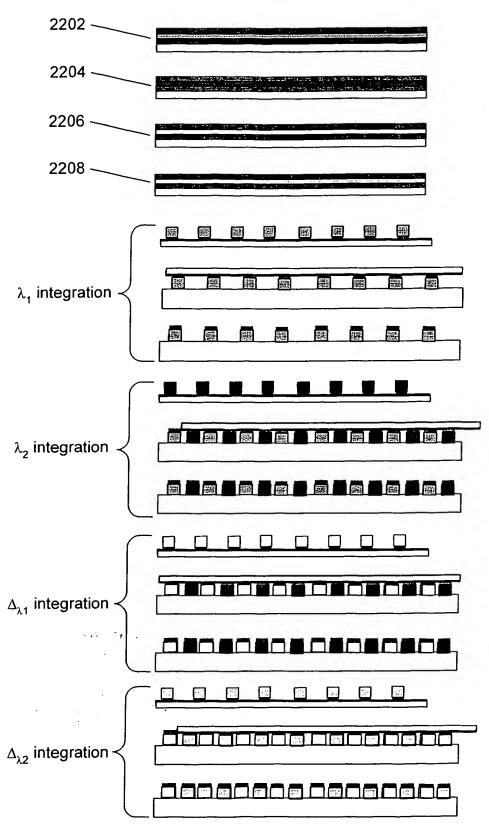
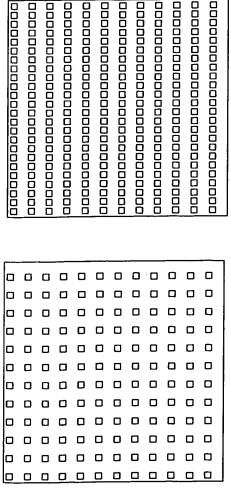
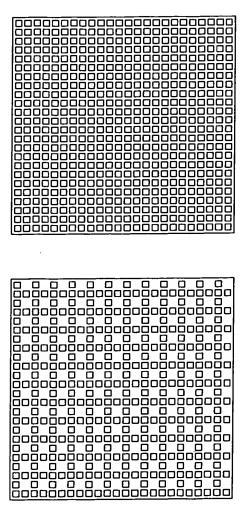


FIG. 22



 Δ_{λ_1} integration

 $\lambda_{_1}$ integration



 $\Delta_{\lambda2}$ integration

 λ_2 integration